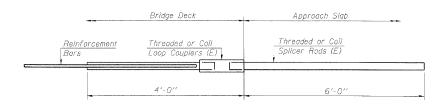
-Stage Construction Line

WELDED SECTIONS BAR SPLICER ASSEMBLY ALTERNATIVES

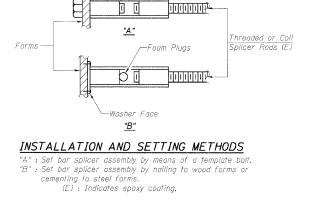
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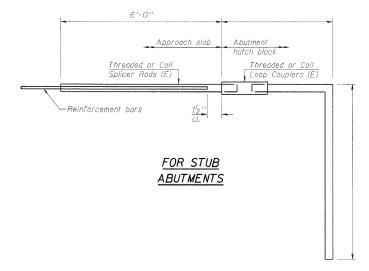
**Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Min.	Capacity	= 23.0	kips -	tension	
Min.	Pull-out	Strenath	= 12,3	Kips -	tension





Min.	Capacity = 23.0 kips - tension
	Pull-out Strength = 12.3 kips - tension

<u>NOTES</u>

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length.

All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

cer assembly surfamed in a surfame of the following capacity = 1.25 x fy x A₁

(Tension in kips) = 1.25 x fy x A₁

(Minimum *Pull-out Strength = 0.66 x fy x A₁

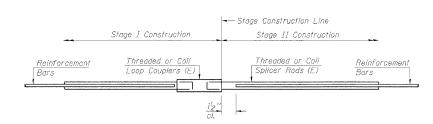
Minimum rum

(Tension in kips)

Atrenath of

Where fy = Yield strength of lapped reinforcement bars in ksi. A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	BAR SPLIC	CER ASSEMBLI	ES	
	Splicer Rod or Dowel Bar Length	Strength Requirements		
Bar Size to be Spliced		Min. Capacity kips - tension	Min, Pull-Out Strength kips - tension	
#4	1'-8''	14.7	7.9	
#5	2'-2"	23.0	12.3	
#6	2'-7"	33.1	17.4	
#7	3′-5′′	45.1	23.8	
#8	4'-6''	58.9	31.3	
#9	5′-9′′	75.0	39.6	
#10	7′-3′′	95.0	50.3	
#11	9'-0"	117.4	61.8	



STANDARD

Bar Size	No. Assemblies Required	Location
#5	36	Deck
#4	50	Approach Slab
#5	92	Approach Slab
#5	80	Approach Footing

BAR SPLICER ASSEMBLY DETAILS STRUCTURE NO. 022-0112

SECTION COUNTY SHEET NO.15 546 488 22(1, 1-1, 2&3)RS-7 DUPAGE 28 SHEETS CONTRACT NO. 60G51 FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT

alfred benesch & company benesch Engineers - Surveyors - Planners 205 North Michigan Avenue, Sulte 2400 Chicago, Illinois 60601 312-665-0450 Job No. 10050

DESIGNED CHECKED KWS RMG DRAWN CHECKED KWS

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